## **AMENDMENTS TO THE CLAIMS**

1. (withdrawn) A process for producing polymer coated substrates, comprising: co-extruding a molten polypropylene polymer layer and a molten polymer layer of a polyolefin polymer other than polypropylene selected to stabilize the molten

polypropylene polymer layer to allow extrusion thereof, directly onto a surface of a cellulosic substrate so that the molten polypropylene polymer layer is disposed adjacent the cellulosic substrate, under conditions sufficient to oxidize the molten polypropylene layer to promote bonding thereof to the cellulosic substrate without a pretreatment step; and

cooling said molten co-extruded polymer layers to form a coherent structure.

- 2. (withdrawn) The process of Claim 1, wherein the co-extrusion step comprises co-extruding the polymer layers under conditions sufficient to oxidize the molten polypropylene layer to provide an adhesive strength between the polypropylene polymer layer and the cellulosic substrate that is greater than the cohesive strength of the cellulosic substrate.
- 3. (withdrawn) The process of Claim 1, wherein the co-extrusion step comprises co-extruding the polymer layers at a temperature greater than about 550°F.
- 4. (withdrawn) The process of Claim 3, wherein the co-extrusion step comprises co-extruding the polymer layers at a temperature of about 600° F
- 5. (withdrawn) The process of Claim 1, further comprising applying pressure to the molten polyolefin/molten polypropylene/cellulosic substrate structure sufficient to cause the molten polypropylene to impregnate into at least a portion of the cellulosic substrate after the coextruding step.

Serial No. 09/864,718 Atty. Docket No. 1248 P 055 6. (withdrawn) The process of Claim 5, wherein the pressure applying step comprises directing the molten polyolefin/molten polypropylene/cellulosic substrate structure into a nip

formed by a pair of cooperating rolls.

7. (withdrawn) The process of Claim 6, wherein the cooperating rolls include a pressure

roll in direct contact with the cellulosic substrate and a chill roll in direct contact with the molten

polyolefin polymer layer.

8. (withdrawn) The process of Claim 7, wherein the pressure applying step and the

cooling step occur substantially simultaneously.

9. (withdrawn) The process of Claim 1, wherein the polyolefin polymer is a

polyethylene polymer.

10. (withdrawn) The process of Claim 9, wherein the polyethylene polymer is selected

from the group consisting of high density polyethylene, low density polyethylene, linear low

density polyethylene and copolymers, terpolymers, and blends thereof.

11. (withdrawn) The process of Claim 10, wherein the polyethylene polymer is high

density polyethylene.

12. (withdrawn) The process of Claim 10, wherein the polyethylene polymer is low

density polyethylene.

13. (withdrawn) The process of Claim 1, wherein the polypropylene polymer is selected

from the group consisting of polypropylene homopolymers, polypropylene co- and terpolymers,

and polypropylene dominate blends.

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14. (withdrawn) The process of Claim 13, wherein the polypropylene polymer is a polypropylene homopolymer.

15. (withdrawn) The process of Claim 1, wherein the cellulosic substrate is a paper substrate.

16. (withdrawn) The process of Claim 1, wherein said co-extruding step comprises co-extruding said polypropylene polymer, said polyplefin polymer and at least one additional polymer so as to sandwich said polyplefin polymer between said polypropylene polymer and said additional polymer.

17. (withdrawn) The process of Claim 16, wherein said additional polymer is polypropylene.

18. (withdrawn) The process of Claim 1, wherein the polypropylene layer comprises the majority component of said co-extruded polymer layer.

19. (withdrawn) A process for producing co-extruded polyolefin coated cellulosic substrates useful as release liners, comprising:

co-extruding a molten polypropylene polymer layer and a molten polyethylene polymer layer directly onto a surface of cellulosic substrate so that the molten polypropylene polymer layer is disposed adjacent the cellulosic substrate, at a temperature greater than about 550° F to oxidize the molten polypropylene layer to promote bonding thereof to the cellulosic substrate without a pretreatment step; and cooling said molten polymer layers to form a coherent structure.

20. (withdrawn) The process of Claim 19, wherein said polyethylene is high density polyethylene.

21. (withdrawn) The process of Claim 19, wherein said polyethylene is low density polyethylene.

22. (withdrawn) The process of Claim 19, wherein said co-extruding step comprises co-extruding said polypropylene polymer, said polyethylene polymer and at least one additional polymer so as to sandwich said polyethylene polymer between said polypropylene polymer and said additional polymer.

23. (withdrawn) The process of Claim 22, wherein said additional polymer is polypropylene.

24. (withdrawn) The process of Claim 19, wherein the polypropylene layer comprises the majority component of said co-extruded polymer layer.

25. (currently amended) A multi-layer sheet material comprising:

a cellulosic substrate; and

a co-extruded polymer layer on a surface of the cellulosic substrate comprising an untreated molten polypropylene polymer layer adjacent the cellulosic substrate and a polyolefin polymer layer formed of a polymer other than polypropylene overlying said polypropylene polymer layer;

wherein the <u>molten</u> polypropylene layer penetrates into at least a portion of the cellulosic substrate layer such that the multi-layer sheet material has an adhesive strength between the polypropylene polymer layer and the cellulosic substrate that is greater than the cohesive strength of the cellulosic substrate.

Serial No. 09/864,718 Atty. Docket No. 1248 P 055 26. (original) The multi-layer sheet material of Claims 25, wherein said polypropylene polymer layer and said polyolefin polymer layer as co-extruded directly onto a surface of the cellulosic substrate.

## 27. (cancelled).

- 28. (original) The multi-layer sheet material of Claim 25, wherein and said polyolefin polymer layer comprises high density polyethylene polymer.
- 29. (original) The multi-layer sheet material of Claim 25, wherein and said polyolefin polymer layer comprises low density polyethylene polymer.
- 30. (original) The multi-layer sheet material of Claim 25, wherein the polypropylene layer comprises the majority component of said co-extruded polymer layer.
- 31. (original) The multi-layer sheet material of Claim 30, wherein the polypropylene layer comprises at least about 80 weight percent of said co-extruded polymer layer.
- 32. (original) The multi-layer sheet material of Claim 25, further comprising at least one additional polymeric layer overlaying said polyolefin layer.
- 33. (original) The multi-layer sheet material of Claim 32, wherein said at least one additional polymeric layer overlaying said polyolefin layer is a polypropylene layer.
  - 34. (previously presented) A co-extruded polymer coated sheet material, comprising: a cellulosic substrate; and

polypropylene/polyethylene/polypropylene layer co-extruded directly onto a surface of the cellulosic substrate so that one of the polypropylene layers is molten and adjacent a surface of the cellulosic substrate,

wherein the polypropylene layer adjacent the cellulosic substrate comprises the majority component of said co-extruded layers and wherein the sheet material has an adhesive strength between the polypropylene layer and the cellulosic substrate that is greater than the cohesive strength of the cellulose substrate.

35. (currently amended) A release liner comprising:

a cellulosic substrate;

a co-extruded polymer layer on said cellulosic substrate comprising a polypropylene polymer layer adjacent a surface of a porous the cellulosic substrate and a polyolefin polymer layer formed of a polymer other than polypropylene overlying said polypropylene polymer layer, wherein the polypropylene layer penetrates into at least a portion of the cellulosic substrate layer such that the adhesive strength between the polypropylene polymer layer and the cellulosic substrate is greater than the cohesive strength of the cellulosic substrate; and

a release coating on an outer surface of the co-extruded polymer layer.

36. (cancelled)

37. (original) The release liner of Claim 35, wherein and said polyolefin polymer layer comprises high density polyethylene polymer.

38. (original) The release liner of Claim 35, wherein and said polyolefin polymer layer comprises low density polyethylene polymer.

Serial No. 09/864,718 Attv. Docket No. 1248 P 055 39. (original) The release liner of Claim 35, wherein the polypropylene layer comprises the majority component of said co-extruded polymer layer.

40. (original) The release liner of Claim 39, wherein the polypropylene layer comprises at least about 80 weight percent of said co-extruded polymer layer.

41. (original) The release liner of Claim 35, further comprising at least one additional polymeric layer overlaying said polyolefin layer.

42. (original) The release liner of Claim 41, wherein said at least one additional polymeric layer overlaying said polyolefin layer is a polypropylene layer.

43. (currently amended) A release liner comprising:

a cellulosic substrate;

a polypropylene/polyethylene/polypropylene layer co-extruded directly onto a surface of the cellulosic substrate so that one of the polypropylene layers is molten and adjacent a surface of the cellulosic substrate, wherein the polypropylene layer adjacent the cellulosic substrate comprises the majority component of said co-extruded layers and wherein the sheet material has an adhesive strength between the polypropylene layer and the cellulosic substrate that is greater than the cohesive strength of the cellulosic substrate; and

a release coating on an outer surface of the co-extruded polymer layer.

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